

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P321520

Luminaire Tested: **GAN-SA6B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321520
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA6B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21984 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

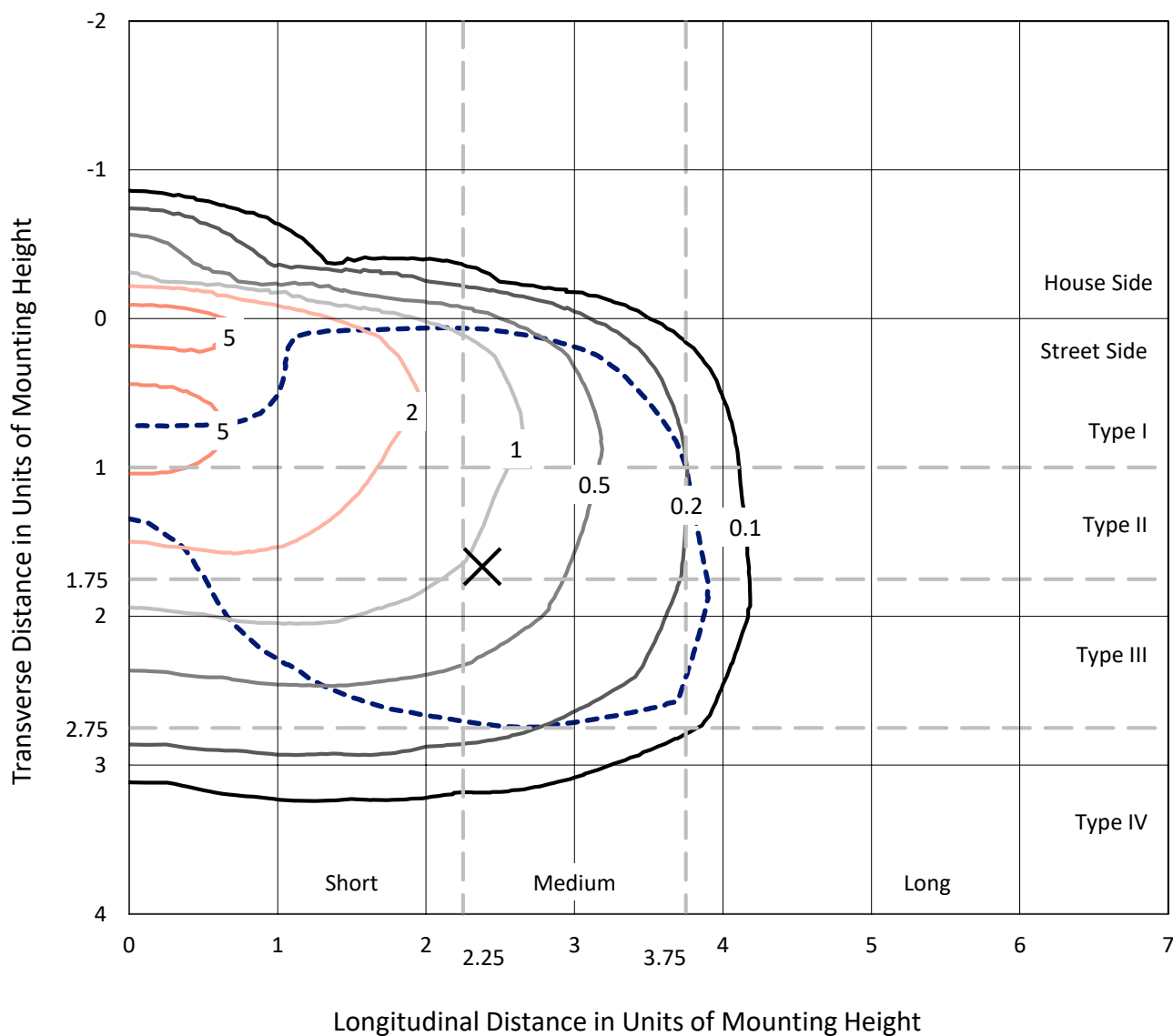
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

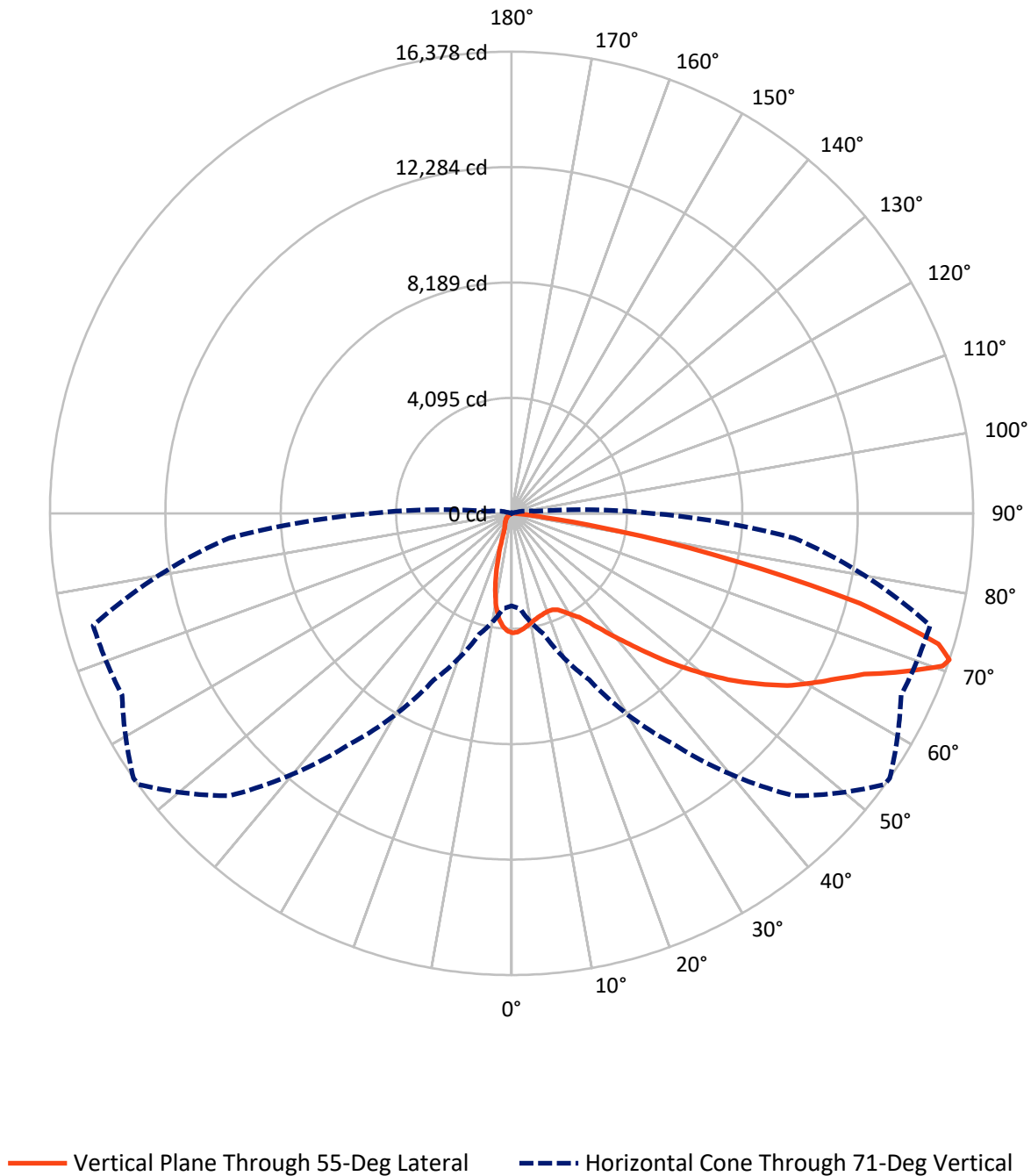
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1740.5	0.0	1740.5
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	20243.5	0.0	20243.5
	% Fixture	92.1	0.0	92.1
Total	Lumens	21984.0	0.0	21984.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.5	1.6
10°-20°	816.1	3.7
20°-30°	1311.5	6.0
30°-40°	2228.3	10.1
40°-50°	3458.6	15.7
50°-60°	4650.0	21.2
60°-70°	5688.4	25.9
70°-80°	3325.9	15.1
80°-90°	143.8	0.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	21984.0	100.0
0°-180°	21984.0	100.0

Coefficient of Utilization



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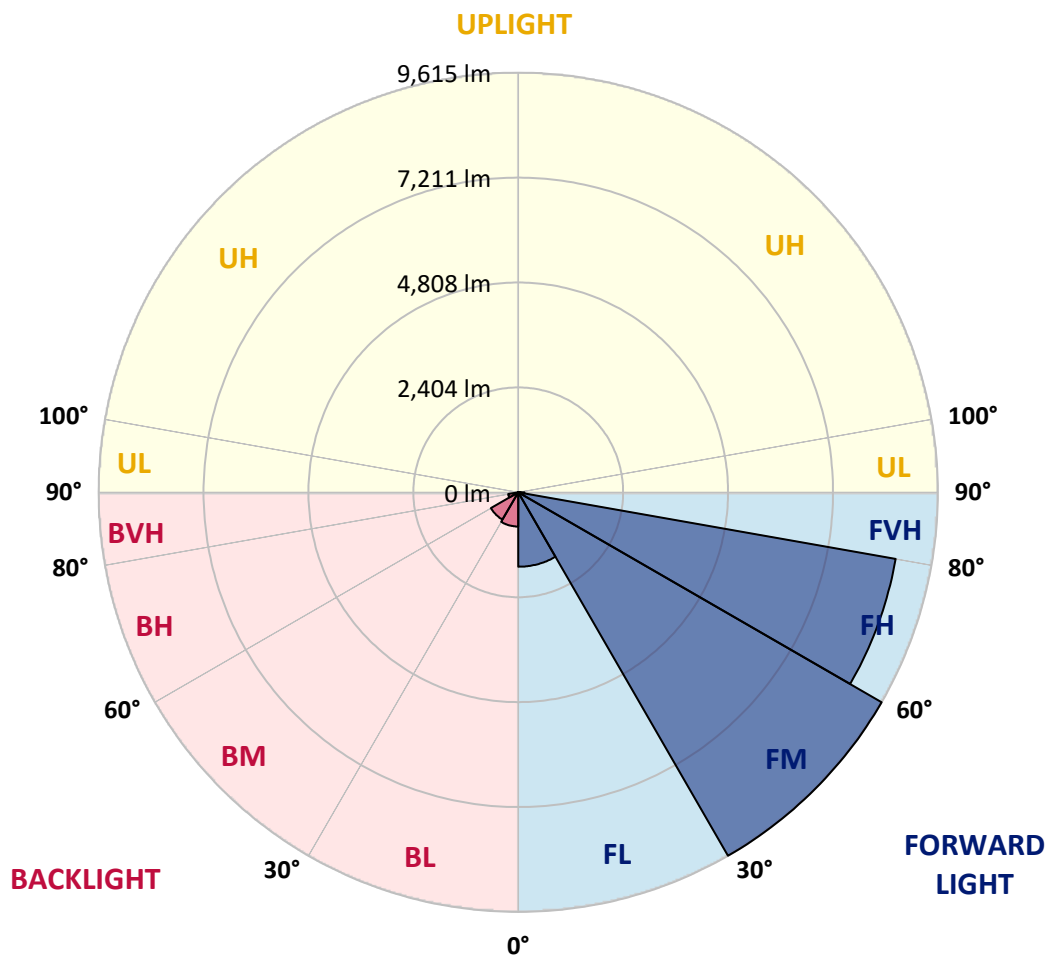
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1705.7	7.8			
FM	(30°-60°)	9615.2	43.7			
FH	(60°-80°)	8781.2	39.9			G4/12000
FVH	(80°-90°)	141.5	0.6			G2/225
BL	(0°-30°)	783.4	3.6	B2/1000		
BM	(30°-60°)	721.7	3.3	B1/1000		
BH	(60°-80°)	233.2	1.1	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7
2.5°	4115.3	4120.3	4138.0	4145.9	4164.7	4196.3	4212.1	4213.0	4238.7	4248.6	4256.5
5°	3824.1	3853.7	3883.3	3914.9	3972.2	4048.2	4123.2	4130.1	4213.0	4274.2	4306.8
7.5°	3573.4	3600.0	3635.6	3685.9	3766.9	3886.3	4011.7	4026.5	4183.4	4322.6	4395.7
10°	3315.7	3337.5	3388.8	3462.8	3574.4	3734.3	3903.1	3927.8	4156.8	4387.8	4516.1
12.5°	3040.3	3053.2	3115.4	3222.0	3385.8	3589.2	3811.3	3843.9	4140.0	4462.8	4658.2
15°	2831.1	2837.0	2896.2	3006.8	3194.3	3458.9	3740.2	3779.7	4143.9	4552.6	4813.2
17.5°	2777.8	2780.7	2812.3	2888.3	3054.2	3342.4	3683.9	3732.3	4155.8	4640.5	4969.2
20°	2993.9	2973.2	2940.6	2928.8	2999.9	3272.3	3650.4	3704.7	4171.6	4718.4	5109.3
22.5°	3587.2	3526.0	3390.8	3210.1	3100.6	3277.2	3659.3	3713.6	4221.9	4814.2	5271.2
25°	4467.7	4382.8	4152.8	3797.5	3455.9	3419.4	3733.3	3788.6	4319.7	4928.7	5426.2
27.5°	5469.6	5385.7	5104.4	4597.0	4014.6	3700.7	3903.1	3954.4	4464.8	5030.4	5544.7
30°	6429.1	6405.4	6073.8	5497.3	4717.5	4156.8	4122.2	4165.7	4572.4	5091.6	5638.4
32.5°	7242.5	7205.0	6938.5	6377.8	5522.0	4704.6	4379.9	4392.7	4653.3	5170.6	5760.8
35°	7996.7	7950.3	7716.3	7186.3	6347.2	5373.9	4776.7	4757.9	4830.0	5329.5	5938.5
37.5°	8655.1	8697.5	8437.9	7933.5	7087.5	6069.8	5311.7	5255.4	5106.4	5588.1	6196.2
40°	9205.9	9205.9	9070.7	8650.2	7887.1	6789.4	5916.8	5842.8	5522.0	5986.9	6522.9
42.5°	9404.3	9446.8	9497.1	9259.2	8602.8	7537.7	6591.0	6514.0	6107.3	6552.5	6935.5
45°	9416.2	9483.3	9740.9	9739.9	9249.3	8281.0	7351.1	7314.6	6857.5	7279.0	7446.9
47.5°	9249.3	9333.2	9757.7	9998.6	9761.7	8972.9	8182.3	8136.9	7739.0	8169.4	7981.9
50°	8991.7	9084.5	9578.1	10100.2	10110.1	9575.1	9057.8	8989.7	8709.4	9187.2	8534.7
52.5°	8530.7	8710.4	9417.2	10123.9	10339.1	10095.3	9891.0	9861.4	9795.2	10167.4	8974.9
55°	7544.6	7744.0	9013.4	10131.8	10551.4	10556.3	10671.8	10679.7	10812.9	11083.4	9302.6
57.5°	7078.7	7191.2	8308.6	10169.3	10866.2	11079.5	11467.4	11528.6	11734.9	11953.1	9676.8
60°	6785.5	6918.7	7961.1	10118.0	11360.8	11765.5	12204.8	12225.5	12446.6	12850.4	10183.2
62.5°	6551.5	6682.8	7742.0	9920.6	11916.5	12590.8	12925.4	12927.4	13093.2	13919.4	10758.7
65°	5974.1	6084.6	7298.8	9698.5	12283.8	13407.1	13762.5	13749.6	13884.9	15046.7	11426.9
67.5°	5139.0	5223.9	6393.6	8856.5	12145.6	14149.4	15026.0	14983.5	14819.7	16021.0	11689.5
70°	3973.2	4003.8	5039.3	7380.7	10850.5	14434.7	16247.1	16225.3	15393.2	15846.3	10727.1
71°	3284.2	3384.8	4441.1	6514.0	9982.8	14171.1	16365.5	16378.3	15249.1	15370.5	10064.7
72.5°	1907.1	1993.0	3219.0	5002.7	8475.4	13071.5	15751.5	15844.3	14575.9	13980.6	8596.9
75°	408.7	437.3	1193.4	2421.4	4662.2	9161.5	12432.8	12763.5	11880.0	9510.9	5181.4
77.5°	284.3	307.0	511.3	1098.7	1540.9	4526.9	7723.3	8096.4	7097.4	3574.4	1658.4
80°	225.1	250.7	398.8	542.9	416.6	1460.0	3617.8	3845.8	2367.1	797.6	279.4
82.5°	125.4	149.1	310.9	293.2	159.9	277.4	1012.8	1145.1	473.8	160.9	66.1
85°	36.5	44.4	200.4	213.2	68.1	53.3	172.7	214.2	89.8	42.4	29.6
87.5°	0.0	0.0	96.7	81.9	19.7	7.9	15.8	17.8	17.8	17.8	19.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7	4239.7
2.5°	4256.5	4263.4	4238.7	4206.1	4171.6	4129.1	4084.7	4050.2	4049.2	4032.4	4015.6
5°	4308.8	4304.8	4236.7	4133.1	4010.7	3883.3	3761.9	3624.7	3579.3	3523.0	3504.3
7.5°	4405.5	4377.9	4233.8	4006.7	3738.2	3471.7	3196.3	2918.9	2800.5	2693.9	2675.1
10°	4526.9	4474.6	4215.0	3817.2	3324.6	2833.0	2417.5	2040.4	1874.5	1747.2	1741.3
12.5°	4653.3	4573.3	4162.7	3530.9	2782.7	2091.7	1613.0	1241.8	1103.6	1014.8	1022.7
15°	4785.6	4666.1	4050.2	3145.0	2165.7	1419.5	991.1	772.9	717.6	694.9	700.9
17.5°	4920.8	4730.3	3893.2	2680.0	1556.7	916.1	686.1	624.8	624.8	629.8	631.8
20°	5038.3	4764.8	3662.2	2158.8	1055.2	667.3	600.2	591.3	596.2	604.1	605.1
22.5°	5154.8	4766.8	3361.2	1630.7	738.4	584.4	571.5	567.6	570.6	579.4	580.4
25°	5249.5	4743.1	2984.1	1159.9	589.3	550.8	544.9	542.9	544.9	555.8	555.8
27.5°	5288.0	4657.2	2524.1	815.4	528.1	513.3	511.3	513.3	516.3	524.2	525.1
30°	5292.0	4507.2	2022.6	590.3	478.8	463.0	466.9	473.8	470.9	468.9	470.9
32.5°	5301.8	4333.5	1534.0	485.7	437.3	412.6	407.7	407.7	395.8	388.9	385.0
35°	5334.4	4129.1	1112.5	436.3	394.8	366.2	347.5	325.8	303.0	291.2	288.2
37.5°	5385.7	3914.9	796.6	403.7	357.3	324.8	289.2	250.7	218.2	209.3	209.3
40°	5479.5	3693.8	589.3	378.1	327.7	287.3	233.9	183.6	154.0	149.1	149.1
42.5°	5627.6	3460.9	469.9	355.4	302.1	248.8	178.7	133.3	111.5	108.6	107.6
45°	5781.6	3204.2	410.6	333.6	274.4	204.3	132.3	98.7	85.9	82.9	82.9
47.5°	5935.6	2930.8	382.0	312.9	247.8	158.9	98.7	78.0	72.1	72.1	73.0
50°	6065.9	2645.5	361.3	290.2	213.2	120.4	78.0	66.1	64.2	68.1	69.1
52.5°	6098.4	2365.1	335.6	261.6	170.8	91.8	64.2	58.2	58.2	58.2	58.2
55°	6078.7	2148.0	302.1	226.1	126.4	73.0	55.3	51.3	50.3	50.3	50.3
57.5°	6145.8	2019.7	241.8	175.7	90.8	59.2	48.4	45.4	43.4	42.4	42.4
60°	6281.1	1935.7	172.7	126.4	68.1	49.4	41.5	38.5	35.5	33.6	33.6
62.5°	6460.7	1862.7	128.3	93.8	52.3	39.5	34.5	31.6	27.6	25.7	25.7
65°	6598.9	1732.4	97.7	70.1	39.5	31.6	26.7	25.7	19.7	17.8	16.8
67.5°	6387.7	1446.1	79.0	51.3	29.6	24.7	20.7	19.7	11.8	9.9	9.9
70°	5478.5	1006.9	63.2	37.5	21.7	19.7	16.8	12.8	8.9	7.9	7.9
71°	4968.2	841.0	57.3	31.6	18.8	18.8	15.8	10.9	7.9	6.9	6.9
72.5°	4127.2	597.2	48.4	24.7	16.8	19.7	16.8	9.9	7.9	6.9	5.9
75°	2395.7	249.7	33.6	16.8	12.8	23.7	21.7	8.9	5.9	4.9	4.9
77.5°	720.6	91.8	18.8	10.9	9.9	20.7	24.7	7.9	3.0	1.0	1.0
80°	131.3	39.5	11.8	6.9	6.9	12.8	18.8	3.9	0.0	0.0	0.0
82.5°	46.4	19.7	6.9	3.9	3.0	5.9	8.9	0.0	0.0	0.0	0.0
85°	26.7	13.8	3.9	2.0	0.0	1.0	2.0	0.0	0.0	0.0	0.0
87.5°	17.8	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)